

CLAIMS

1. A torque meter comprising:

an elastic member arranged in a power transmission channel and deforming in response to a torque to be measured; and

torque detection means for detecting the torque based on deformation of said elastic member, characterized in that it comprises:

a torque member for receiving the torque applied to said elastic member; and

a load member arranged separate from said torque member, for supporting a load of said elastic member.

2. The torque meter according to claim 1, characterized in that said elastic member comprises an input part, an output part, and a deforming part arranged between said input part and said output part, and that said torque member and said load member are formed in said deforming part.

3. The torque meter according to claim 1 or 2, characterized in that

said elastic member is a flange-type member;

said torque member and said load member are thin parts formed with said elastic member;

said torque member has a direction of a surface of the thin part positioned parallel to a direction; and

said load member has a direction of a thickness of the thin part positioned parallel to the torque direction.

4. The torque meter according to claims 1 or 2, characterized in that

said elastic member is a torsion-bar-type member;

said torque member is a small-diameter shaft part; and

said load member is a thin part formed in a radial direction of said small-diameter shaft part and having a direction of a surface positioned in a direction of a torsional moment.

5. The torque meter according to claim 1 or 2, characterized in that

said elastic member is a cylindrical member;

said torque member is a thin part arranged in a circular-arc direction; and

said load member is a thin part arranged in a radial direction.

6. The torque meter according to any one of claims 1 to 5, characterized in that said torque detection means are mounted to at least one of said torque member and said load member.

7. The torque meter according to any one of claims 1 to 6, characterized in that said torque detection means use two or more types of means.